

AMENDMENT TO THE CLAIMS:

This following list of claims will replace all prior versions and listing of claims in this application. Please cancel claim 37, and add new claims 38-50, as follows:

1-37. (Canceled).

38. (New) An auxiliary power unit configured to be coupled to a torque bearing element of a primary power unit, comprising:

an expander wheel comprising a drive shaft and a plurality of blades;

an injection nozzle for injecting a condensable fluid towards the plurality of blades; and

a clutch system configured to selectively couple the drive shaft to the torque bearing element.

39. (New) The power unit of claim 38, wherein the condensable fluid comprises superheated vapor.

40. (New) The power unit of claim 38, wherein the torque bearing element is a crankshaft of an engine.

41. (New) The power unit of claim 38, wherein the primary power unit is an automobile engine.

42. (New) The power unit of claim 38, further comprising a condensation chamber for condensing the condensable fluid, the condensation chamber comprising an inlet and an outlet, wherein at least a portion of the plurality of blades is disposed adjacent the inlet of the condensation chamber.

43. (New) The power unit of claim 42, wherein the condensation chamber and the expander wheel are housed adjacent to one another in an expander housing.
44. (New) The power unit of claim 42, wherein the outlet of the condensation chamber is hydraulically connected to a condenser.
45. (New) The power unit of claim 38, further comprising a gear system for mechanically coupling the drive shaft of the expander wheel to the clutch system.
46. (New) The power unit of claim 38, further comprising a control system configured to control the selective coupling of the drive shaft to the torque bearing element.
47. (New) The power unit of claim 46, wherein the control system is configured to adjust a characteristic parameter of the condensable fluid to adjust a rotational speed of the drive shaft.
48. (New) The power unit of claim 47, wherein the control system comprises a first sensor for detecting a speed of the torque bearing element and a second sensor for detecting a speed of the drive shaft, wherein the control system is configured to adjust the characteristic parameter of the condensable fluid based on the detected speeds of the torque bearing element and the drive shaft.

49. (New) The power unit of claim 47, wherein the characteristic parameter comprises at least one of: pressure, temperature, and mass flow rate of the condensable fluid.
50. (New) The power unit of claim 38, wherein the power unit is detachably mountable to the primary power unit.
51. (New) An auxiliary power unit comprising:
- an expander wheel comprising a drive shaft and a plurality of blades;
 - a condensation chamber comprising an inlet and an outlet, at least a portion of the plurality of blades is disposed within the condensation chamber adjacent the inlet;
 - an injection nozzle for injecting a condensable fluid towards the plurality of blades and the inlet of the condensation chamber so as to rotate the expander wheel,
 - wherein the drive shaft is mechanical coupled to an electrical converter configured to convert rotational energy of the drive shaft to electrical energy, and
 - wherein the condensation chamber condenses the condensable fluid after the condensable fluid passes through the plurality of blades of the expander wheel, so as to further extract energy of the condensable fluid.
52. (New) The power unit of claim 51, wherein the electrical converter comprises an electric generator.
53. (New) The power unit of claim 51, wherein the condensable fluid comprises superheated vapor.

54. (New) A method of providing auxiliary power to a primary power unit, comprising:
- injecting a condensable fluid towards a plurality of blades of an expander wheel to rotate a drive shaft of the expander wheel, and
- selectively coupling the drive shaft to a torque bearing element of the primary power unit, so as to provide the auxiliary power to the primary power unit.
55. (New) The method of claim 54, further comprising condensing the condensable fluid immediately after the condensable fluid passes through the plurality of blades.
56. (New) The method of claim 54, wherein selectively coupling is performed by a clutch system.
57. (New) The method of claim 54, further comprising adjusting a characteristic parameter of the condensable fluid to adjust a rotational speed of the drive shaft.